

F(B)

JOHN READHEAD &
SONS LTD.

525-6-8-9

580, 2, 3, 6, 7, 8, 8240

Profile & Deck

SS EMPIRE SQUIRE
NEWCASTLE ON TYNE.

Report No. 100132

SS EMPIRE
FORREST
NEWCASTLE ON TYNE.

Report No. 100299

SS EMPIRE HAZLITT
NEWCASTLE ON TYNE.

Report No. 100567

S.S. "EMPIRE RUSKIN"
NEWCASTLE ON TYNE.
Report No. 100158.

SS. EMPIRE LAKELAND
NEWCASTLE ON TYNE.
Report No. 100924

JOHN READHEAD &
SONS LTD.,
YARD NO. 536

"EMPIRE PICKWICK"
NEWCASTLE ON TYNE.

Report No. 101664

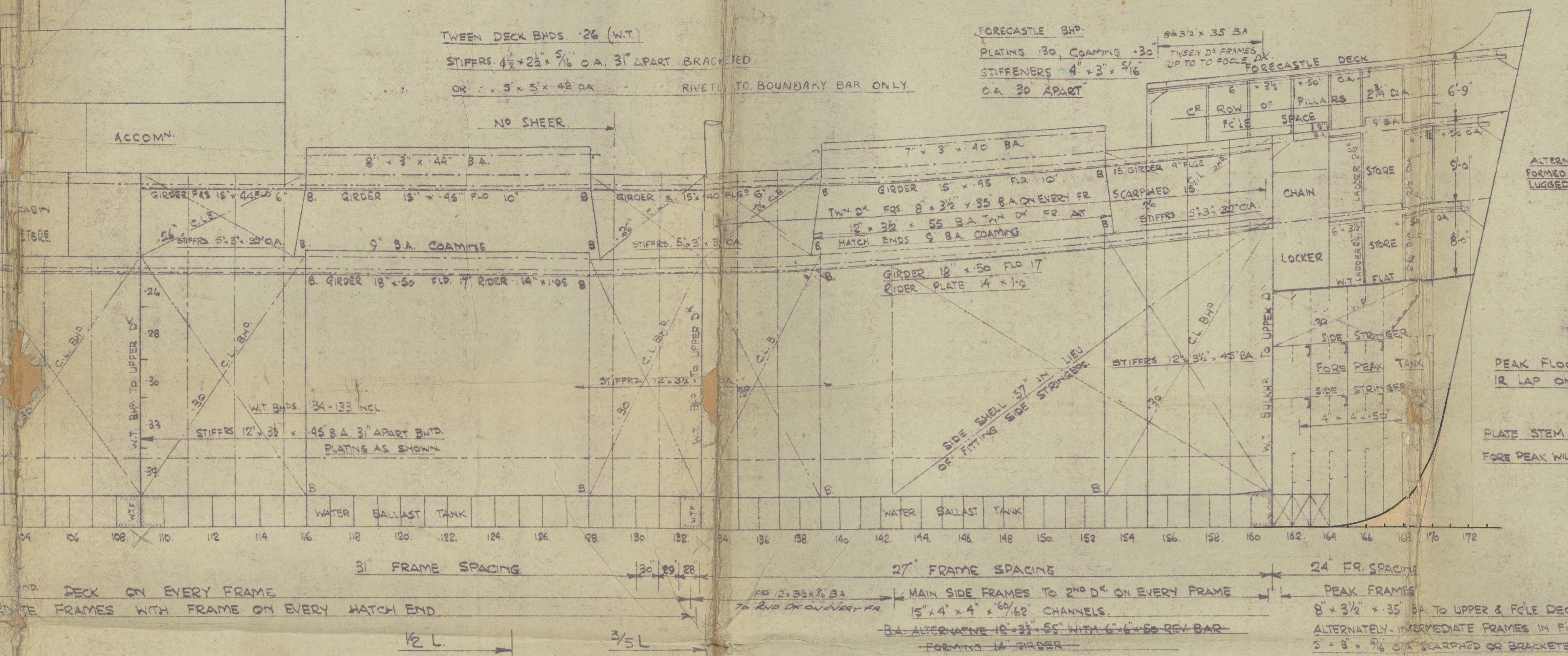
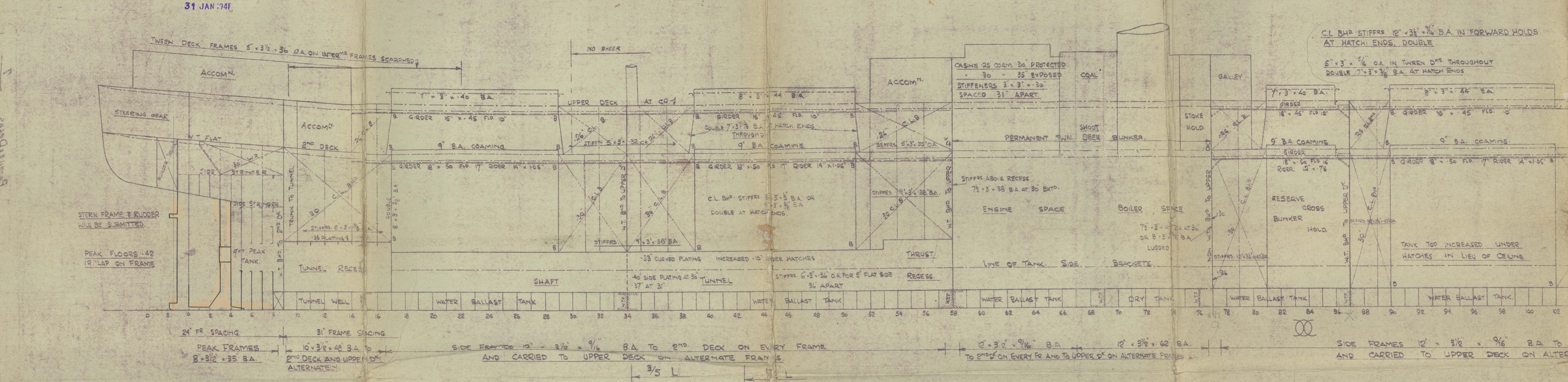
Profile & Deck plans
M/N MANTHOS

LEX

014095-014109-0193



AN 134F



SHIP N° 525 (READHEAD)
PROFILE & DECK

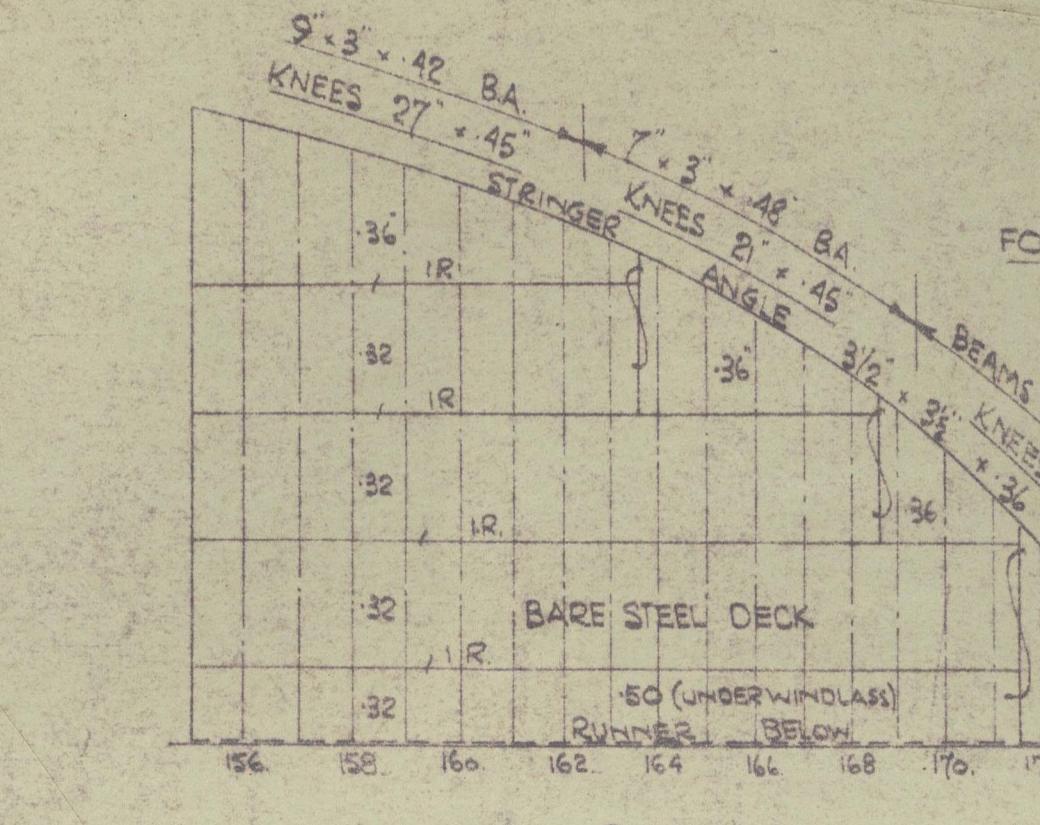
SCALE :- $\frac{1}{8}$ " = 0

DIMENSIONS:- 425'-0" B.P. ON LWL x 56'-0" M^{L.D.} x 36'-9" NORMAL SHELTER. 37'-8" FLAT SHEER. TO UPPER DECK
TO CLASS 100.A.I WITH FREEBOARD AT LLOYDS SPECIAL SURVEY.

SHEER FORWARD
SHEER AFT
ROUND OF BEAM
NO TUMBLE HOME

THE SCANTLINGS OF BILB ANGLE AND CHANNEL SECTIONS GIVEN
ON THIS PLAN ARE "N.B.S."
PLANS OF CARGO HATCHES, HATCH END BEAMS, DECK GIRDERS AND
CRUISE'S STERN

THE SCANTLINGS ARE SUITABLE FOR LOAD DRAFT OF 26' 9" EXTREMELY



SP. "EMPIRE RUSKIN"
NEWCASTLE ON TYNE.

Report No. 100958.

JOHN READHEAD &
SONS LTD.,
YARD NO. 536

"EMPIRE PICKWICK"

NEWCASTLE ON TYNE.

Report No. 101664

Midship Section



6-5-47
5
JOHN READHEAD &
SONS LTD.,

525-6-8-97
530, 2, 3, 6, 7, 8 + 540.

Chestship Section

4

all round fair

S.S. EMPIRE SQUIRE. ~~N.P. MAKEDONIA~~
NEWCASTLE ON TYNE. ~~N/N ANTITAS~~

Report No. 100132.

ss EMPIRE FOREST
NEWCASTLE ON TYNE.

Report No. 100299.

ss EMPIRE HAZLITT
NEWCASTLE ON TYNE.

Report No. 100567

March 4th prefabrication - 525, 526, 532, 536.

March, part, prefabrication - 528, 529, 530, 533, 536, 537, 540;

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S.S. EMPIRE LAKELAND

NEWCASTLE ON TYNE.

Report No. 100924

Lloyd's Register
Foundation

014099-014104-0192

THE SCANTLINGS ARE SUITABLE FOR A DRAUGHT OF 26'-8" EXTREME

SHIP NO 525 (READHEADS)

MIDSHIP SECTION.

SCALE: 1/2" = ONE FOOT.

TO CLASS 100 R.I. WITH FREEBOARD AT LLOYDS SPECIAL SURVEY.

DIMENSIONS: ~ 425'-0" B.P. ON L.W.L. X 56'-0" MLD 56'-3" EXT X 27'-0" NORMAL SHEER X 28'-8" FLAT SHEER MLD TO 2ND DECK X 37'-8" FLAT SHEER MLD TO UPPER DK

LLOYDS NUMERALS TO NORMAL SHEER
 FIRST LONGITUDINAL NUMBER $L \times D = 425' 0" \times 35' 75$ = 15193.75
 SECOND LONGITUDINAL NUMBER $L \times (B+D) = 425' 0" \times (56' 0" + 35' 75)$ = 38993.75
 $\frac{L}{D}$ TO UPPER DECK = $425' 0" \div 36' 75$ = 11.27
 D MOULDED DEPTH = $27' 75" + 8' 0"$ = 35' 75"
 $d = 36' 75" - (9' 0" + 3' 75")$ - CREDIT FOR DEEPER KNEES & FRAME BRACKET = 23' 3"

EQUIPMENT NUMBER	
SECOND LONGITUDINAL NUMBER	= 39418.75
FORECASTLE	= 225.00
MIDSHIP ACCOMMODATION & CASING	= 289.00
SALOON ACCOMMODATION	= 120.00
EQUIPMENT NUMBER	= 40052.75

EQUIPMENT

2 BOWERS ANCHORS 68 CWT EACH STOCKLESS
 1 STREAM ANCHOR 19 CWT EX-STOCK.
 225 FATHOMS 2½" STUD CHAIN CABLE 600 CWT.
 90 FATHOMS ½" STREAM CHAIN OR 5' FLEXIBLE STEEL WIRE 6'x12'
 120 FATHOMS 4½" SPECIAL FLEXIBLE STEEL WIRE 6'x24'
 2 HAWSELS 90 FATHOMS 8' HEMP OR 2½" FLEXIBLE STEEL WIRE 6'x12'
 2 WARPS 90 FATHOMS 7' HEMP OR 2½" FLEXIBLE STEEL WIRE 6'x12'

RIVETING NOTE

RIVETS IN FRAMES TO FLOORS AND CROSS TIE PLATES IN AFT PEAK SPACED 5 DIAS APART CR TO CR
 RIVETS IN FRAMES TO SHELL AT FLAT OF DOUBLE BOTTOM FOR MD LENGTH FORMED SPACED 5½ DIAS (TWO COMPLETE ROWS)
 RIVETS IN FRAMES TO FLOORS AT FLAT OF DOUBLE BOTTOM FOR MD LENGTH FORMED SPACED 6½ DIAS (TWO COMPLETE ROWS)
 RIVETS IN SIDE FRAMES TO SHELL SPACED 6½ DIAS PART, 5½ DIAS PART IN WAY OF FORE & AFT PEAK TANKS AND DEEP FRAMING FOR MD
 RIVETS IN BOTTOM FRAMES TO SHELL AFT HALF LENGTH FORMED SPACED 7 DIAS APART CR TO CR
 RIVETS IN 3R. BUTTS OF OUTSIDE PLATING AND DECK STRINGER PLATES SPACED 3½ DIAS APART CR TO CR
 RIVETS IN 4R. BUTTS OF OUTSIDE PLATING AND DECK STRINGER PLATES SPACED 4 DIAS APART CR TO CR
 RIVETS IN BUTTS OF DECK PLATING INNER BOTTOM & MARGIN PLATING SPACED 4 DIAS APART CR TO CR
 RIVETS IN SEAMS & BUTTS OF BULKHEAD AND TUNNEL PLATING, MARGIN ANGLES AND WEAVER DECK STRINGER ANGLES
 AND BULKHEAD FRAME TO BULKHEAD SPACED 4½ DIAS APART CR TO CR
 RIVETS IN FLAT KEEL ANGLES, VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIRDERS AND SHELL FLANGE OF WATERTIGHT
 BULKHEAD FRAME SPACED 5 DIAS APART CR TO CR
 RIVETS IN FRAMES TO FLOORS AFT HALF LENGTH FORMED REVERSE FRAMES TO FLOORS AND INNER BOTTOM PLATING
 VERTICAL ANGLES TO FLOORS AND SIDE GIRDERS IN BULKHEAD STIFFENERS (EXCEPT PEAK BULKHEADS) AND IN DECK PLATING
 TO BUMPS ON EVERY FRAME SPACED 7 DIAS APART CR TO CR
 RIVETS IN CENTRE GIRDERS TOP ANGLES SPACED 7 DIAS APART CR TO CR NON WATERTIGHT
 RIVETS IN CENTRE GIRDERS TOP ANGLES SPACED 5 DIAS APART CR TO CR WATERTIGHT

THE SCANTLINGS OF ANGLE AND BULB ANGLE SECTIONS
 GIVEN ON THIS PLAN ARE IN B.S.

PLATE STEM, STERN POST AND RUDDER POST
 WILL BE SUBMITTED

LIST OF ALTERNATIVE AMERICAN SECTIONE WITH CORRESPONDING N.B.S. EQUIVALENTS

N.B.S.	ALTERNATIVE AMERICAN
12' x 3½" x 7½" B.S.	12' x 50' x 3½" 80 lbs CHANNEL
12' x 3½" x 62" B.S.	12' x 60' x 3½" 37 lbs CHANNEL
12' x 3½" x 45" B.S.	12' x 45' x 3½" 30 lbs CHANNEL
12' x 3½" x 7½" B.S.	12' x 45' x 3½" 30 lbs CHANNEL
8' x 3½" x 12" B.S.	8' x 3½" x 46" B.S.
9' x 3" x 36" B.S.	9' x 3½" x 48" B.S.
6' x 2½" x 49" B.S.	6' x 3½" x 46" B.S.
6' x 3" x 42" B.S.	6' x 3½" x 46" B.S.
6' x 3" x 38" B.S.	6' x 3½" x 44" B.S.
7½" x 3" x 12" B.S.	8' x 3" x 46" B.S.
8' x 3" x 1½" B.S.	8' x 3" x 46" B.S.
7' x 3" x 36" B.S.	7' x 3" x 46" B.S.
7' x 3" x 32" B.S.	7' x 3" x 46" B.S.
7' x 3" x 44" B.S.	7' x 3" x 46" B.S.
7' x 3" x 40" B.S.	7' x 3" x 46" B.S.
7' x 3" x 40" B.S.	7' x 3" x 46" B.S.



FORECASTLE
 STRINGER PLATE 35' x 36" BUTT
 STRINGER ANGLE 32' x 32' x 36"
 DECK PLATING 32' UNSHEATHED
 BUTTS LAPPED IR.
 SIDE PLATING 40' SEAMS & BUTTS
 BEAMS ON EVERY FRAME RS IR
 PROFILE & DECK PLAN.

"K" OUT 6 IN
 72' x 73" FOR 1/2 L
 TO 46' AT ENDS BUTTS LAPPED & 2R
 FOR 1/2 L TO 3R AT ENDS

"J" IN
 83 1/4" x 65" FOR 1/2 L
 TO 46' AT ENDS
 BUTTS LAPPED & 3R.

"H" OUT
 83 1/4" x 65" FOR 1/2 L
 TO 45' AT ENDS
 BUTTS LAPPED & 3R.

"G" IN
 83 1/4" x 60" FOR 1/2 L
 TO 45' AT ENDS
 BUTTS LAPPED & 3R.

"F" OUT
 83 1/4" x 60" FOR 1/2 L
 TO 45' AT ENDS
 BUTTS LAPPED & 3R.
 GUSSET PLATE
 IN WAY OF
 PANTING 17'
 WITH 10- 7/8" RIPS.

"E" IN
 77 1/2" x 46" FOR 1/2 L
 TO 50' AT ENDS
 INSIDE STRAPS 4R

MARGIN PLATE 36' x 54" - 60" IN B.S.
 BUTTS LAPPED & 3R THROUGHOUT
 MARGIN ANGLE 32' x 32' x 54" TO SHELL
 LUGS TO FRAME BRACKETS 4R
 FLOOR ENDS 6' x 6' x 44" SINGLE WITH 12- 7/8" RIPS

SPECIAL PLAN STRENGTHENING OF BOTTOM FORWARD
 TO BE SUBMITTED LATER.



Foundation

J Readhead Yo 533



Fabricated sternframe

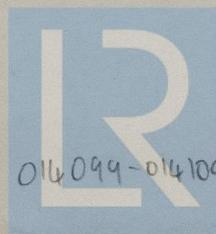
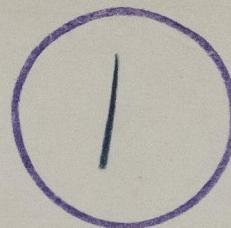
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John Readhead Sons Ltd

Caledon B type part fab

Fabricated sternframe

RECORDS DEPT.
LONDON



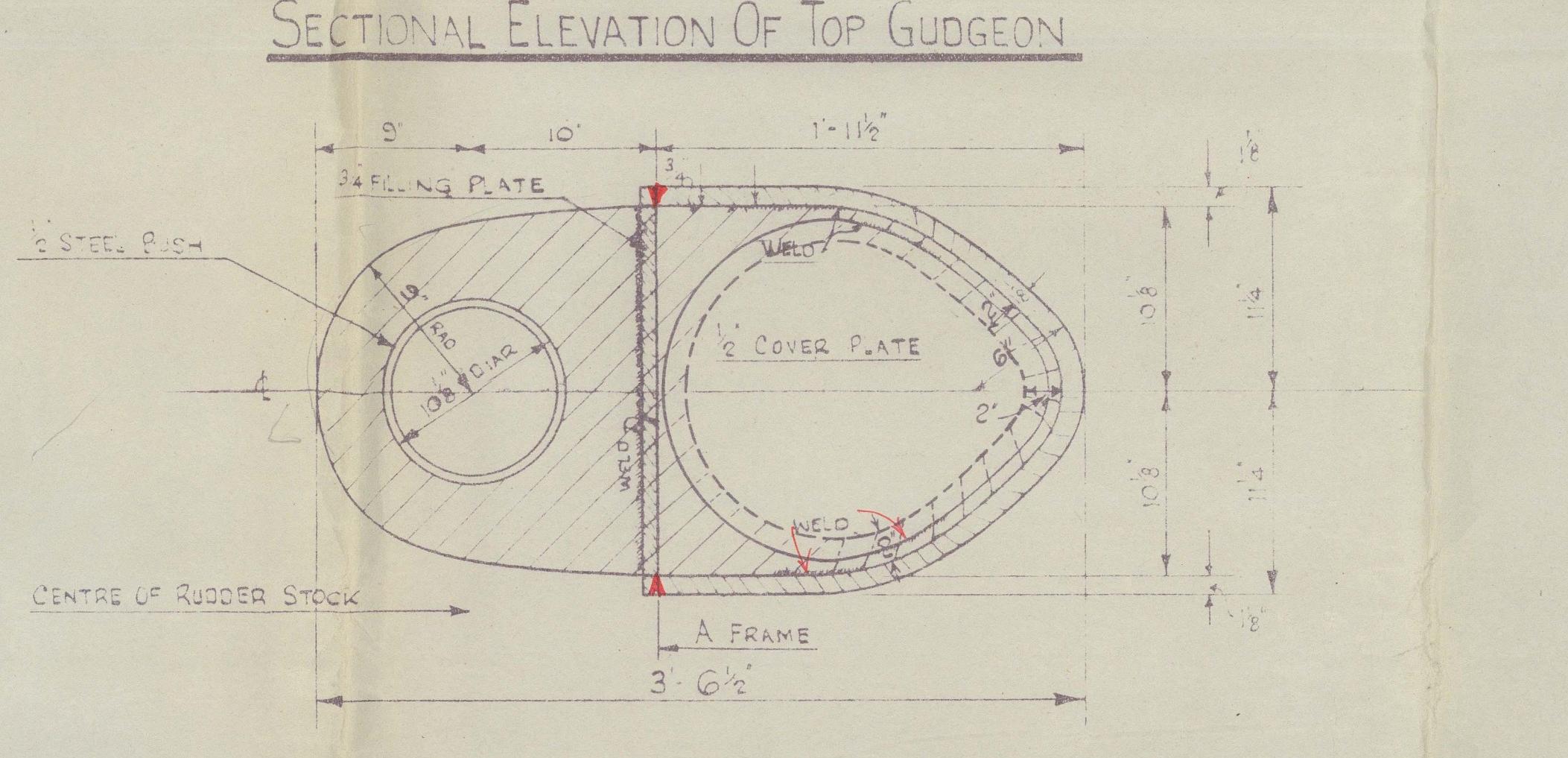
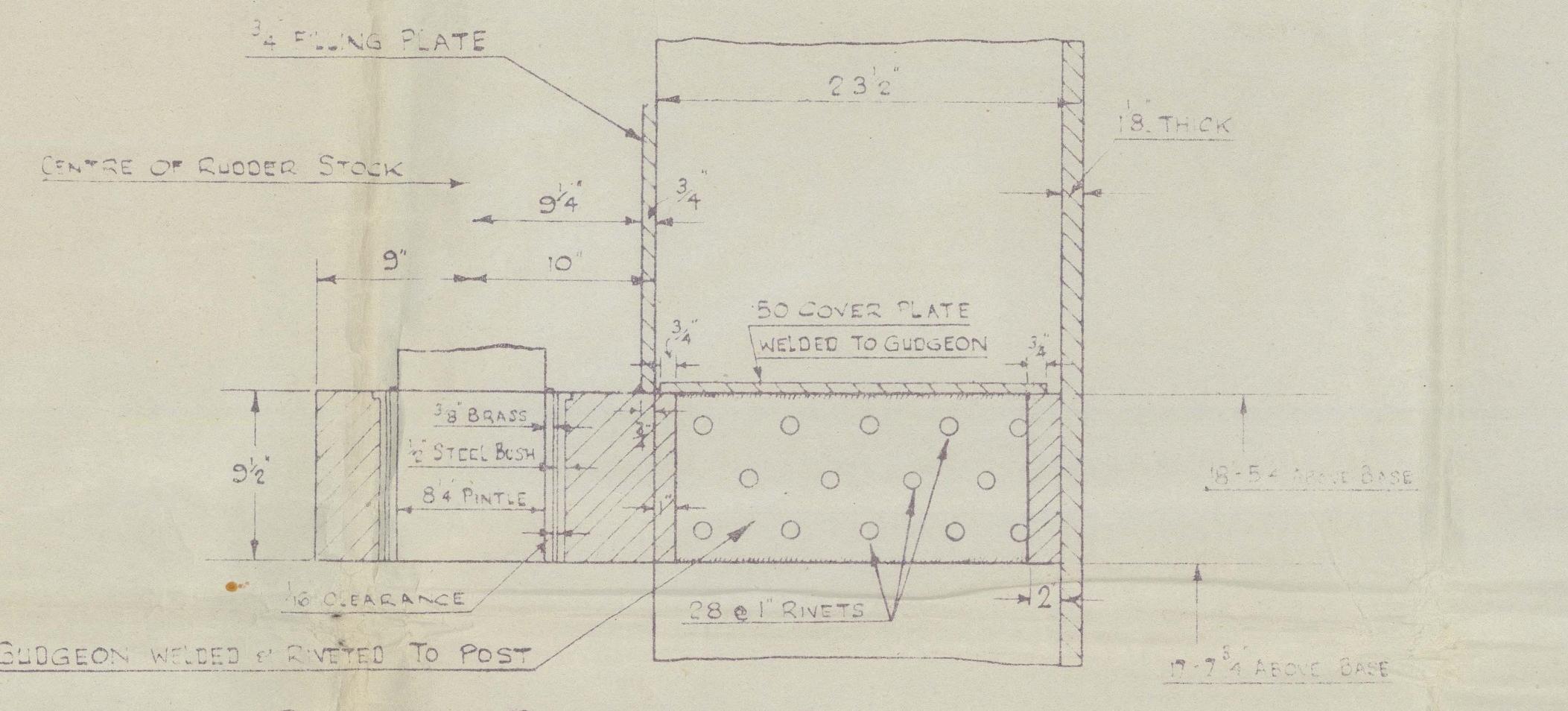
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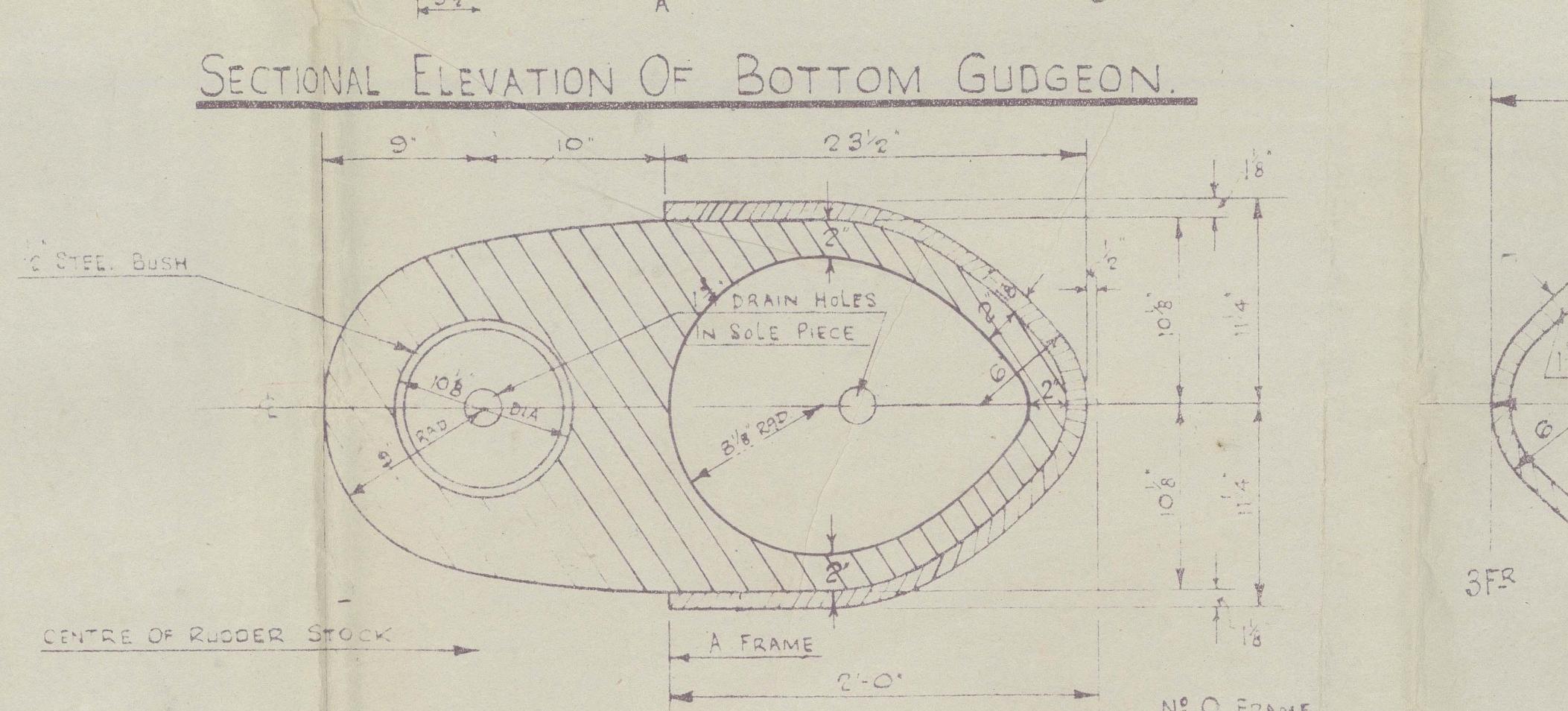
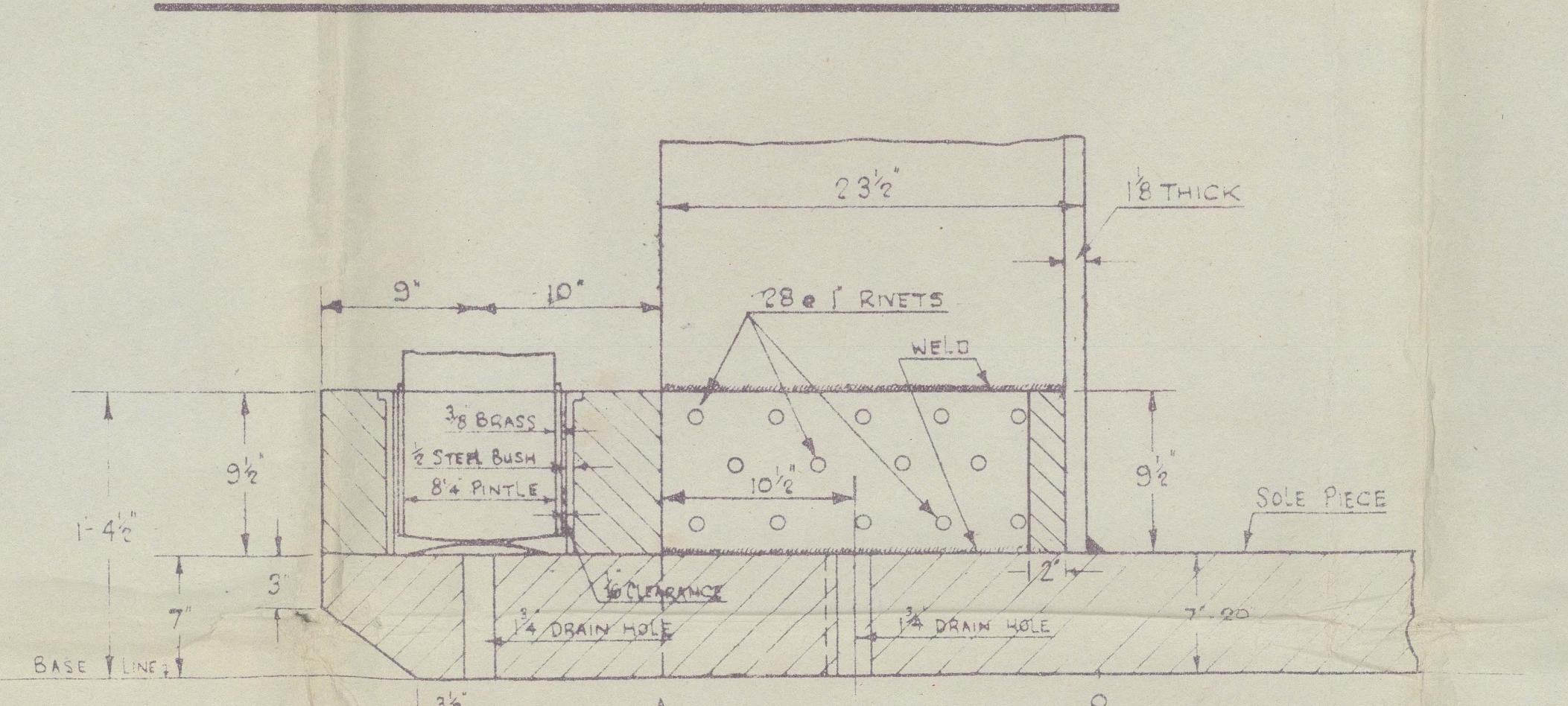
No 533

FABRICATED STERN FRAME

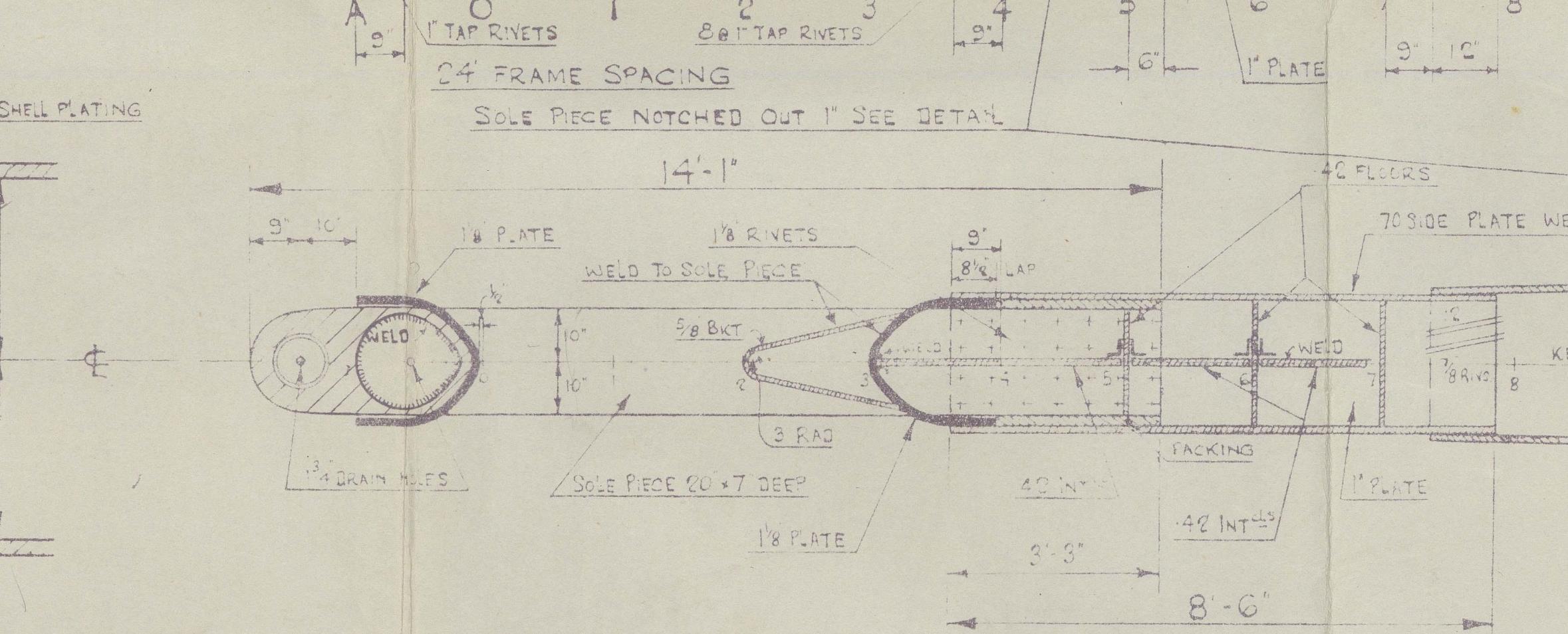
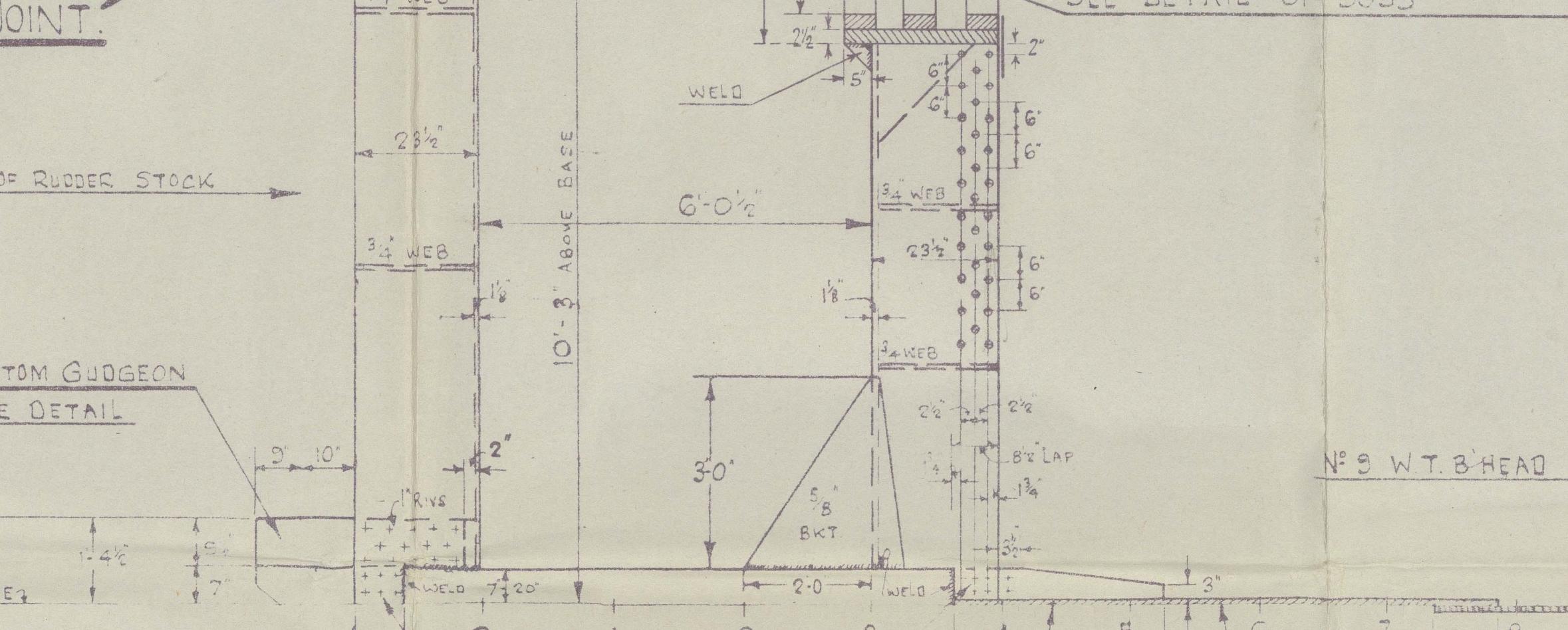
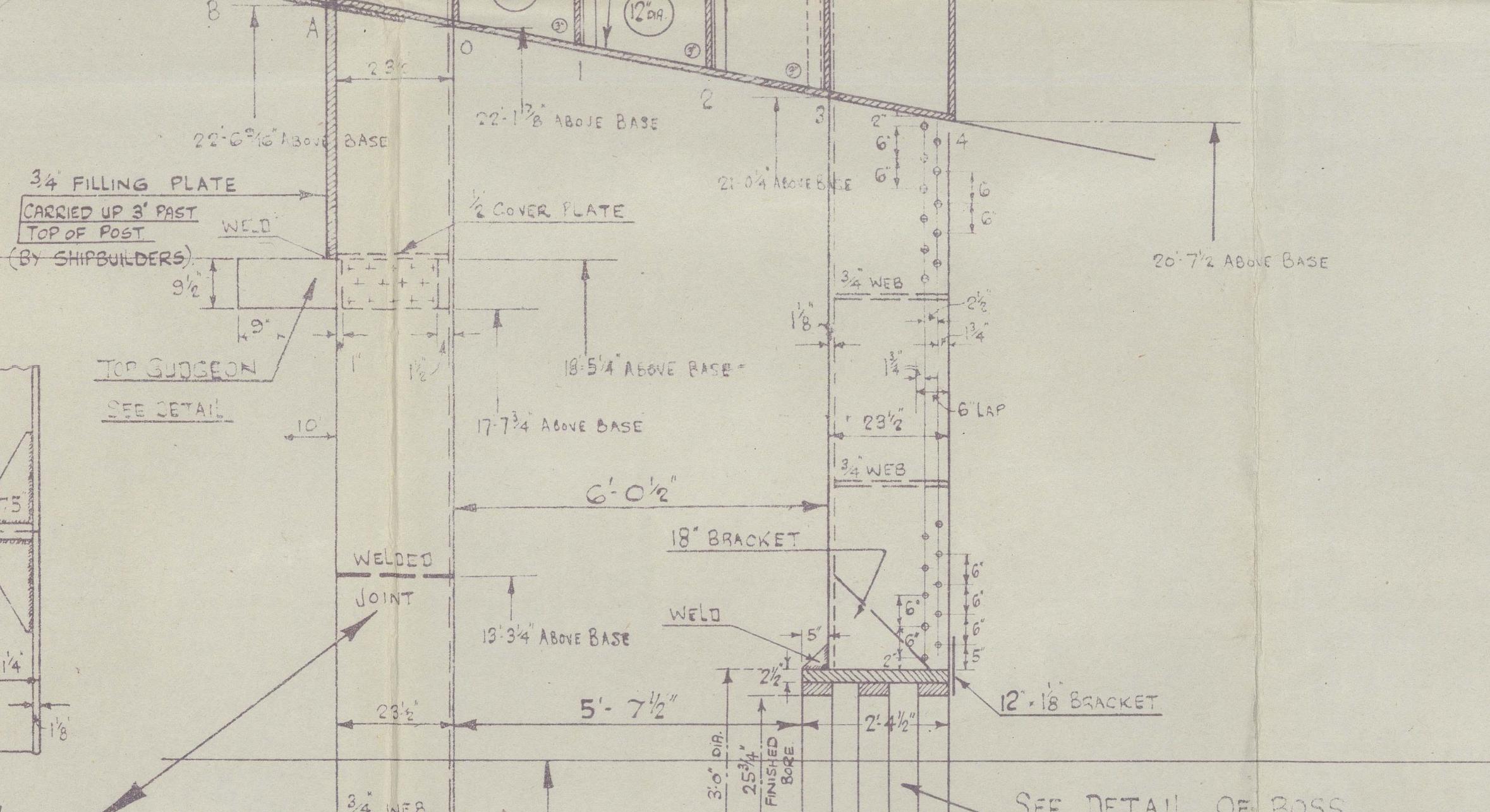
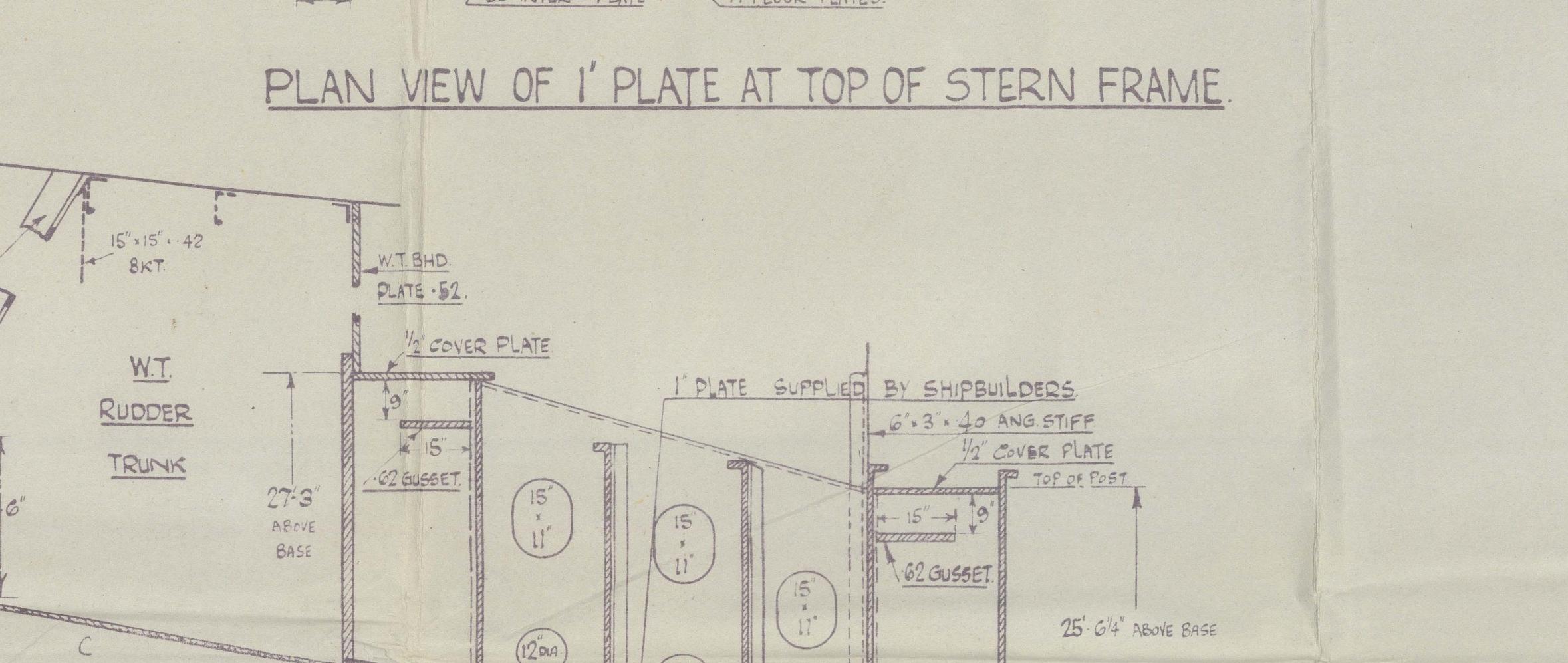
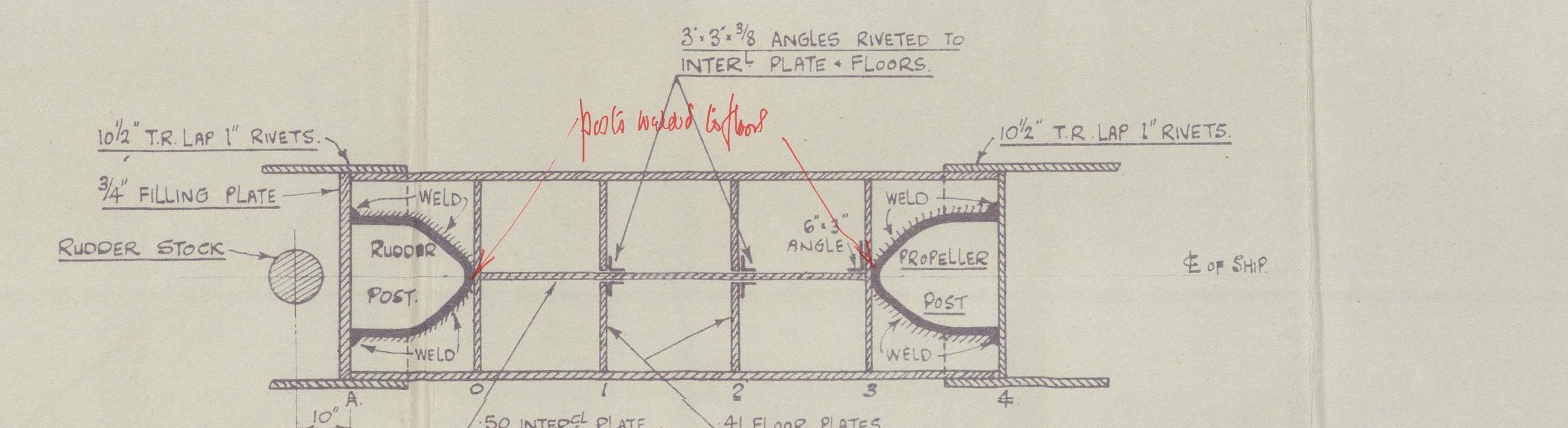
SCALE $\frac{1}{2}$ ONE FOOT.



FOR DETAILS OF PINTLES SEE RUDDER PLAN.



SCALE $\frac{1}{2}$ ONE FOOT.



SCALE 1'-0" ONE FOOT.

24' FRAME SPACING.
FLOORS 41 THICK EXCEPT NO A WHICH IS A WT 3HD
ALL FLOORS FLANGE 5"

FLOORS INTERL. WT 3HD CONTINUOUS 24' 5.4' 5.4' 5.4'

WT 3HD PLATE 5"

WT 3HD PLATE 5"